



September 11, 2013

1516 Ninth Street
Hearing Room A – First Floor
Sacramento, California 95814
10 a.m.
(Wheelchair Accessible)

THE COMMISSION WILL CONSIDER THE FOLLOWING ITEMS:

1. **CONSENT CALENDAR.** (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. **CITY OF HAYWARD.** Possible approval of Amendment 2 to Loan Agreement 004-11-ECF with the City of Hayward to extend the end term date of the agreement by three months to December 31, 2013. This amendment will not alter the total project cost, loan amount, energy cost savings or payback of the Energy Conservation Assistance Account funded loan. This loan funds the replacement of 7,600 city-owned streetlights with LED technology. (ECAA funding) Contact: Amir Ehyai.
 - b. **UC DAVIS CAMPUS.** Possible approval of Amendment 1 to Contract 500-11-009 with the Regents of the University of California on behalf of the Davis Campus to modify the scope of work, reallocate the budget and provide a one-year no-cost time extension. The project originally involved validating a single subcontractor's wind forecast tools through real-time analysis on the California ISO system, and will be revised to a "backcasting" effort involving up to five subcontractors using historical weather data separately from the California ISO system. (PIER electricity funding) Contact: Kiel Pratt.
 - c. **SILICON VALLEY LEADERSHIP GROUP.** Possible approval of a one-year, no-cost co-sponsorship with Silicon Valley Leadership Group (SVLG) and use of the Energy Commission name and logo for the 2013 Data Center Efficiency Summit. The purpose of the Summit is to showcase emerging energy efficiency technologies for data centers. Contact: Heather Bird.
 - d. **CRHMFA HOMEBUYERS FUND.** Possible approval of Amendment 5 to Contract 400-09-016 with the CRHMFA Homebuyers Fund to enable them to more readily provide financing for the Investor Owned Utility basic and advanced home energy upgrade programs, and to provide financing for single measure energy efficiency upgrades. (ARRA funding) Contact: Adrian Ownby.
 - e. **SACRAMENTO MUNICIPAL UTILITY DISTRICT (SMUD).** Possible approval of Amendment 1 to Grant Agreement PIR-10-004 with SMUD for a nine-month extension to accommodate a U.S. Department of Energy (DOE) term extension, update job classifications, and reallocate the budget. This agreement is

a cost-share award with the DOE under the American Recovery and Reinvestment Act (ARRA) of 2009 to demonstrate and evaluate energy storage in a high-penetration solar community. The term will increase from 36 months to 45 months. The total match funding amount will increase from \$5,929,986 to \$6,016,174. The PIER funding total and DOE total will not change. (PIER electric funding) Contact: Michael Sokol.

- f. 2013 NONRESIDENTIAL ALTERNATIVE CALCULATION METHOD (ACM) REFERENCE MANUAL. Possible approval of revisions to the 2013 Nonresidential Alternative Calculation Method Reference Manual previously approved in June 2013. Contact: Martha Brook.
 - g. 2013 RESIDENTIAL ALTERNATIVE CALCULATION METHOD (ACM) REFERENCE MANUAL. Possible approval of revisions to the 2013 Residential Alternative Calculation Method Reference Manual previously approved in June 2013. Contact: Martha Brook.
 - h. HYDROGEN FUELING FACILITY OMBUDSMAN. Possible approval of interagency agreement 600-13-004 with the Governor's Office of Planning and Research in the amount of \$300,000 to reimburse the cost of a Hydrogen Ombudsman within the Governor's Office of Business and Economic Development for a maximum of two years. The Ombudsman will facilitate the permitting and establishment of hydrogen fueling station infrastructure by working with local, state and federal government agencies, hydrogen station developers, hydrogen station hosts, automobile companies, and other hydrogen industry stakeholders. (ARFVTP Funding) Contact: Jean Baronas
- 2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (5 minutes)
 - 3. 2013 PUBLIC DOMAIN RESIDENTIAL COMPLIANCE SOFTWARE. Possible approval of the 2013 Public Domain Residential software used to demonstrate performance compliance with the Residential provisions of the 2013 Building Energy Efficiency Standards (Public Resources Code Section 25402.1(a)). Contact: Martha Brook. (15 minutes)
 - 4. 2013 PUBLIC DOMAIN NONRESIDENTIAL COMPLIANCE SOFTWARE. Possible approval of the 2013 Public Domain Nonresidential software used to demonstrate performance compliance with the Nonresidential provisions of the 2013 Building Energy Efficiency Standards (Public Resources Code Section 25402.1(a)). Contact: Martha Brook. (15 minutes)
 - 5. CALIFORNIA COMMUNITY COLLEGES CHANCELLOR'S OFFICE. Possible approval of Amendment 2 to Contract 600-08-009 with the CCCCCO to augment the agreement with an additional \$1,000,000; revise the scope of work; and extend the end term date. This amendment will allow CCCCCO to continue to develop and provide community college workforce training in alternative fuels and alternative fuel vehicle technology areas. (ARFVTP funding) Contact: David Nichols. (5 minutes)
 - 6. DELTA DIABLO SANITATION DISTRICT. Possible approval of Agreement 002-13-ECD with Delta Diablo Sanitation District for a \$700,000 loan to install a fats, oils, and grease (FOG) receiving facility at the wastewater treatment plant. The FOG will be introduced into the existing wastewater system to increase the amount of biogas produced at the facility. Biogas will be used in the site's existing 1000 kW cogeneration

- system and will offset the amount of natural gas purchased by the site. The project is estimated to save the district \$54,539 annually. The simple payback is 12.8 years based on the loan amount. (ECAA funding) Contact: Haile Bucaneg. (5 minutes)
7. VICTORVILLE 2 HYBRID POWER PLANT PROJECT. Consideration, pursuant to 20 CCR, section 1232, of whether to dismiss upon a determination of insufficiency or lack of merit, or to serve, the Complaint of Robert Landwehr filed August 16, 2013. Contact: Rebecca Westmore. (10 minutes)
 8. VICTORVILLE 2 HYBRID POWER PLANT PROJECT. Consideration of Petition for Reconsideration from Robert Landwehr regarding the Commission's June 2013 Decision to Extend the 5-year Construction Deadline for the Victorville 2 Power Plant Project. Contact: Rebecca Westmore. (10 minutes)
 9. THE REGENTS OF THE UNIVERSITY OF CALIFORNIA ON BEHALF OF THE CALIFORNIA INSTITUTE FOR ENERGY AND ENVIRONMENT. Possible approval of the three highest ranking grant applications for the 2013 Enabling Technologies Development Solicitation 13-01, under Contract 500-01-043 with the Regents of the University of California. The three solicitation areas covered targeted research efforts for transmission grid, distribution grid, and smart homes for a total of \$449,808. (PIER electric funded) Contact: Matt Fung. (5 minutes)
 - a. Smart Home Research Area: California Polytechnic State University, San Luis Obispo, *Arc Fault Circuit Interrupter Development for Residential DC Electricity*, \$149,808. This research will develop a 24-48V DC Arc Fault Circuit Interrupter to detect arcing on either the source or load side of a DC electrical outlet, which enhances electric power supply safety. This technology will be integrated into a Smart DC Wall Plug.
 - b. Transmission Grid Research Area: Regents of the University of California on behalf of the Los Angeles Campus, *Repetitive & Adaptive Control of Distributed Generation for Seam-less Transition Between Grid-tied & Off-grid Modes*, \$150,000. This research will develop a microgrid control system to provide a seam-less transition between grid-tied and off-grid modes. The control system will provide voltage control to mitigate the distributed energy resources impacts variability at the distribution level.
 - c. Distribution Grid Research Area: Regents of the University of California on behalf of the San Diego Campus, *Porous Silicon-based Lithium Ion Anodes for Secondary Batteries*, \$150,000. The research will make an improvement in lithium ion anodes for batteries. Anodes are connections through which electric current flows in or out of a rechargeable battery. This research will increase battery life and energy storage capacity. This project will develop and test new chemistry methods to optimize electrical conductivity and enhanced structural stability.
 10. **Minutes:** Possible approval of the August 27, 2013, Business Meeting Minutes.
 11. **Lead Commissioner or Presiding Member Reports.** A Lead Commissioner on a policy matter may report to the Commission on the matter and discussion may follow. A Presiding Member on a delegated committee may report to the Commission on the matter and discussion may follow.
 12. **Chief Counsel's Report:** The Energy Commission may adjourn to closed session with its legal counsel (Government Code Section 11126(e)) to discuss any of the following matters to which the Energy Commission is a party:

- a. *In the Matter of U.S. Department of Energy (High Level Waste Repository)*, (Atomic Safety Licensing Board, CAB-04, 63-001-HLW).
- b. *BNSF Railway Company v. US Department of Interior, California Energy Commission* (U.S. District Court Central District of California-Riverside, CV 10-10057 SVW (PJWx)).
- c. *Rick Tyler, et al v. Governor of California, Edmund G. Brown, Jr., et al.* (Alameda County Superior Court, RG12619687).
- d. *Asphalt Roofing Manufacturers Association v. California Energy Commission* (Sacramento County Superior Court, 34-2012-80001195).
- e. California Independent System Operator Corporation (Federal Energy Regulatory Commission, Docket No. ER12-2634).
- f. *PECG v. Brown*, Alameda County Superior Court Case Nos: RG10494800 et al. (Furlough Litigation).
- g. *American Public Gas Association v. U.S. Department of Energy*, Case No. 11-1485 (9th Cir. Dec. 23, 2011).
- h. *Communities for a Better Environment and Center for Biological Diversity v. Energy resources Conservation and Development Commission, and California State Controller* (Alameda Superior court, RG13 681262).

The Energy Commission may also discuss any judicial or administrative proceeding that was formally initiated after this agenda was published; or determine whether facts and circumstances exist that warrant the initiation of litigation, or that constitute a significant exposure to litigation against the Commission.

13. **Executive Director's Report.**

14. **Public Adviser's Report.**

15. **Public Comment:** People may speak up to three minutes on any matter concerning the Energy Commission, with the exception of items appearing elsewhere on this agenda or items related to pending adjudicative (certification or enforcement) proceedings.

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Adjournment of Hearings and Meetings: Depending upon time available and the orderly management of proceedings, the Commission may order adjournment (recess or postponement) of any noticed hearing or meeting, to be continued to the next day, another specific date or time, or to the next business meeting, as appropriate. Any such adjournment will be noticed at the time the order of adjournment is made (Government Code §§11128.5, 11129).